



**Young Scientist Awards**

**JUDGING RUBRIC: STANSW Scientific Investigation, Years 5-6**

|  |  |
| --- | --- |
| Level | Description |
| 5 | The student has provided clear and convincing evidence that he/she:   * completed a **well-planned** scientific investigation that incorporated **fair testing** * had shown **originality** in the idea and **creativity** in the investigative methods * had a **good understanding** of the science concepts related to the investigation * **gathered relevant** background information and made **reasoned** **predictions** * **carefully selected** materials and equipment * **accurately** gathered experimental data in an **appropriate number of trials** * **systematically** recorded data, including the **correct use of units** * analysed data, suggesting **plausible** explanations for the results * made **valid** conclusions and suggested **useful applications** * documented **each stage** of the investigative method in a log book * **acknowledged** **all** assistance given * used effective **communication skills** taking intoaccount,purpose and audience |
| 4 | The student has provided substantial evidence that he/she:   * completed a **planned** scientific investigation that incorporated **some** fair testing * demonstrated **some innovative** or creative aspects * had **reasonable** understanding of the related science concepts * performed **some relevant** background research and made an **appropriate prediction** * selected **suitable** materials and equipment * collected **meaningful** and **sufficient** data * **correctly** recorded data * **discussed** possible reasons for the results * analysed data and came to a **valid** conclusion * included a log book **detailing** the different stages of the investigation process * **acknowledged** **any** assistance given * used **effective** language and formatting to communicate with the intended audience |
| 3 | The student has provided evidence that he/she:   * completed a scientific investigation that contained **elements** of fair testing * had shown **glimpses** of innovation or creativity * demonstrated an **understanding** of the science concepts used in the investigation * collectedbackground research with **some relevance** to the subject of investigation * made some form of a **prediction** * **used** suitable equipment * collected and recorded **first-hand** data * proposed **sound** explanations for the data collected * provided **supporting** documentation in the accompanying log book * **acknowledged some** of theassistance that was given * used **appropriate** language to communicate with the intended audience |

**JUDGING RUBRIC: STANSW Scientific Investigation, Years 5-6**

|  |  |
| --- | --- |
| Level | Description |
| 2 | The student has provided evidence that he/she:   * completed a scientific investigation with **limited evidence of fair testing** * set the investigation in **some sort** of scientific context * collected **fragments** of background research * attempted to make a **prediction** * gathered data but was unable to **clearly** present it * offered **sketchy** explanations for the data collected * presented a logbook that was either **fragmented** or **too brief** * **informally** mentionedassistance given * used language and formatting that **did not connect** with the intended audience |
| 1 | The student has provided evidence that he/she:   * attempted an investigation with a **lack of understanding** of fair testing * had **inadequate** understanding of the related science concepts * **failed** to gather first-hand data * offered explanations for results that could not be **experimentally** supported * **did not maintain** a suitable log book * **failed to acknowledge** assistance given |